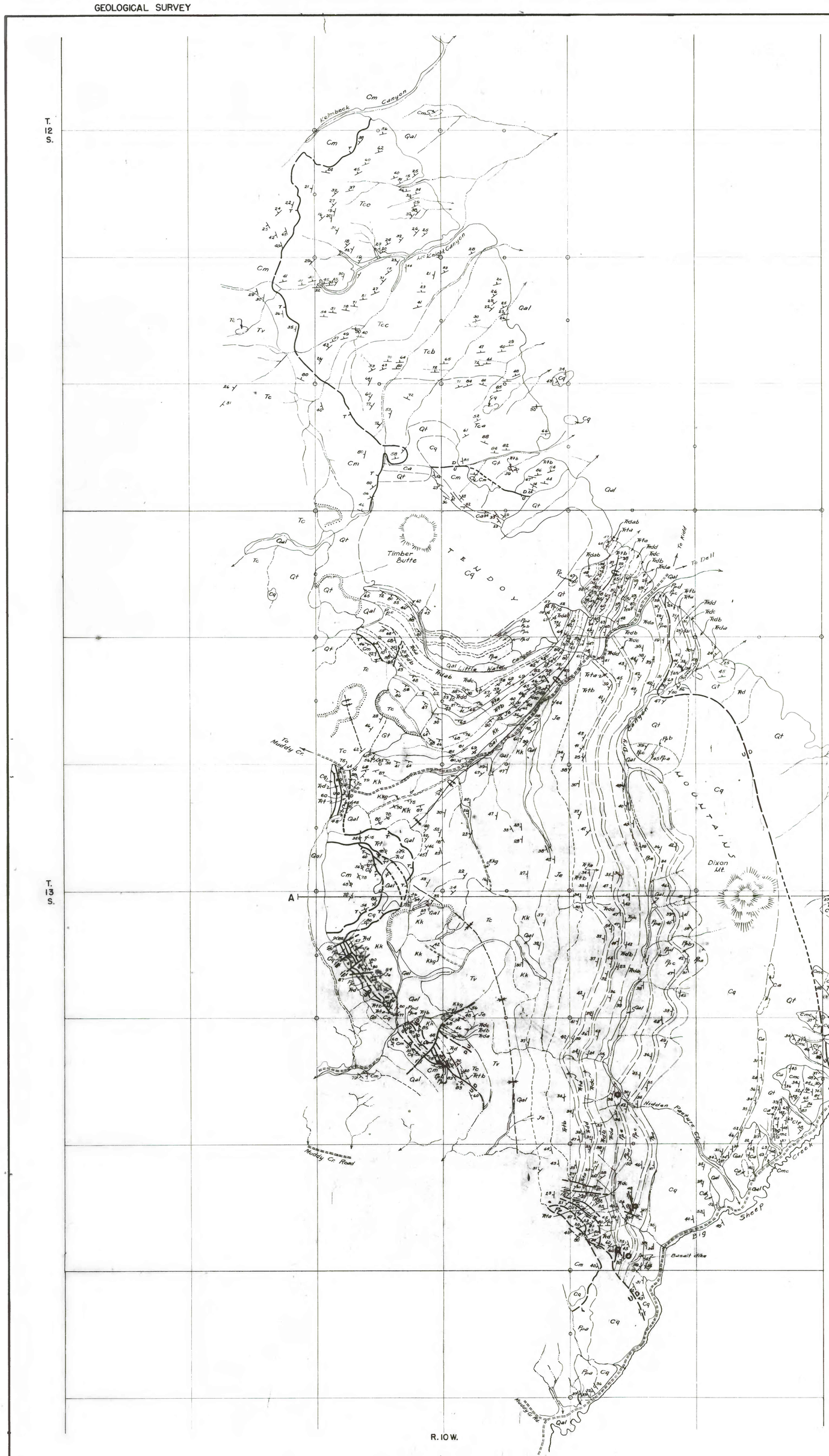
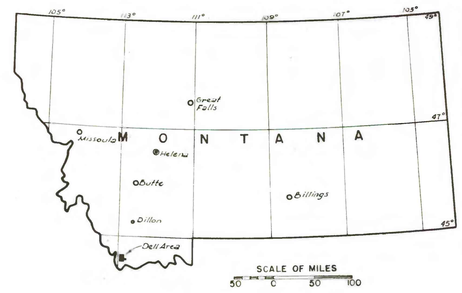
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISSOURI RIVER BASIN STUDIES
PRELIMINARY MAP PLATE 2





KEY MAP
SHOWING LOCATION OF AREA

EXPLANATION

ROCK UNITS

- Qal — Alluvium and hill wash
- Qt — Talus (mostly from Quadrant quartzite)
- Tv — Volcanics (undifferentiated)
- Tc — Conglomerate (undifferentiated)
  - Tcc — Upper conglomerate member
  - Tcb — Limestone member
  - Tca — Lower conglomerate member

QUATERNARY / TERTIARY

- Kk — Kootenai formation
  - Kkg — Gastropod limestone member
- Je — Ellis formation
- Trt — Thaynes limestone (undifferentiated)
  - Trtb — Limestone member
  - Trta — Sandstone member
- Trd — Dinwoody formation (undifferentiated)
  - Trdd — Upper limestone member
  - Trdc — Red shale member
  - Trdb — Lower limestone member
  - Trdab — Basal shale and lower limestone members undifferentiated
  - Trda — Basal shale member
- Pp — Phosphoria formation (undifferentiated)
  - Ppe — Chert member
  - Ppd — Upper phosphatic shale member
  - Ppc — Upper siliceous and carbonate member
  - Ppb — Lower phosphatic shale member
  - Ppa — Lower siliceous and carbonate member
- Cq — Quadrant quartzite
- Ca — Amsden formation
- Cmc — Mission Canyon limestone
- Clp — Lodgepole limestone

CRETACEOUS / JURASSIC / TRIASSIC / PERMIAN / CARBONIFEROUS (Pennsylvanian, Mississippian)

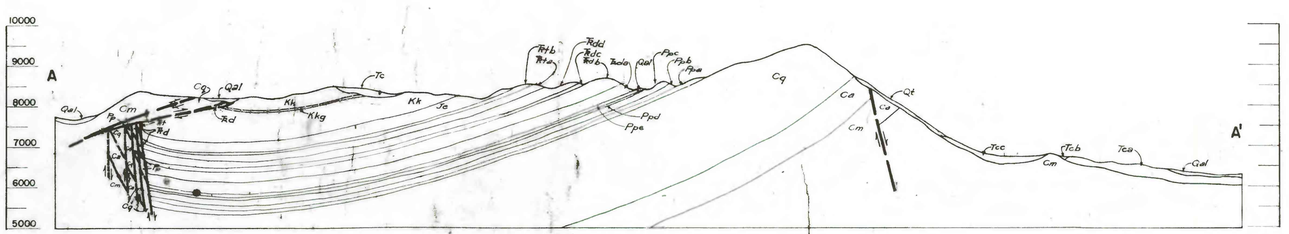
MAP SYMBOLS

- Strike and dip of beds
- Strike and dip of overturned beds
- Horizontal beds
- Vertical beds
- Contact, long dash where approximate, short dash where position inferred
- Axis of syncline, long dash where approximate, short dash where projected from beneath Tertiary and Quaternary rock
- Axis of anticline, long dash where approximate, short dash where projected from beneath Tertiary and Quaternary rock
- Axis of overturned anticline, long dash where approximate, short dash where projected from beneath Tertiary and Quaternary rock
- Axis of overturned syncline, long dash where approximate, short dash where projected from beneath Tertiary and Quaternary rock
- Fault, long dash where approximate, short dash where concealed. (Arrows show relative horizontal movement. U-upthrown, D-downthrown side)
- Thrust fault, T- indicates upper plate, long dash where approximate, short dash where concealed
- Slump area
- Trenched and sampled in 1947 by W. R. Lowell and David Bostwick
- Located section corner
- Located quarter-section corner

Base from U. S. Forest Service
Map of Beaverhead National Forest

Elevations on cross section from barometric traverse

Geology by Wayne R. Lowell, October, 1947



CROSS SECTION A-A'

GEOLOGIC MAP OF DELL AREA, BEAVERHEAD COUNTY, MONTANA

SCALE 1000 0 1000 2000 3000 4000 5000 FEET